ATTY. DOCKET NO. SERIAL NO. U.S. DEPARTMENT OF COMMERCE FORM PTO-1449 30585/3 09/385,394 PATENT AND TRADEMARK OFFICE APPLICANT INFORMATION DISCLOSURE CITATION John S. Yates, Jr. et al. FILING DATE (Use several sheets if necessary) August 30, 1999 U.S. PATENT DOCUMENTS SUBCLASS FIELD PATE EXAMINER DOCUMENT NUMBER DATE NAME CLASS 12/01/70 3,544,969 Rakoczi 172.5 Nov. 27, 1967 340 3,781,823 12/25/73 340 July 28, 1972 Senese 172.5 200 4,084,235 04/11/78 Hirtle 364 Apr. 14, 1975 4,455,602 06/19/84 Baxter 364 200 May 22, 981 4,514,803 4/30/85 Agnew 364 200 Apr. 26, 1982 Gruner 200 May 22, 1981 4,575,797 03/11/86 364 5,574,927 11/12/96 Scantlin 712 041 Mar. 25, 1994 5,638,525 06/10/97 Hammond 395 385 Feb. 10, 1995 Frank 591 5,822,578 10/13/98 395 June 5, 1995 Kelly 5,832,205 11/03/98 395 185.06 Aug. 20, 1996 5,920,721 7/6/99 Hunter 395 705 Jun. 11, 1997 5,930,509 07/27/99 Yates 395 707 Jan. 29, 1996 5,958,047 09/28/99 712 237 Jun. 25, 1997 Panwar #6 Da 126 612000 FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT NUMBER COUNTRY CLASS SUBCLASS DATE YES 08/1/5/96 WO 96/24895 PCT/US G06F 9/22 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.) Burroughs Preliminary Edition, B 1700 Systems Reference Manual, Burroughs Corporation (1972) Burroughs, B 1700 Systems Micro Implementation Language (MIL) Reference Manual, Burroughs Corporation (1973) Anton Chernoff, et al., FX!32, A Profile-Directed Binary Translator, IEEE Micro, Vol. 18 No. 2 pp. 56-64, March/April, 1998 Digital Equipment Corp., White Paper: How DIGITAL FX!32 Works (September 1997) http://www.digital.com/semiconductor/amt/fx32/fx-white.htm Ebcioglu and Altman, IBM Research Report, DAISY: Dynamic Compilation for 100% Architectural Compatibility, IBM Research Division (1996) Ronald M. Guffin, Microdiagnostics for the Standard Computer MLP-900 Processor, IEEE Transactions on Computers, Vol. C-20 No. 7, pp. 803-808 (July 1971) **EXAMINER DATE CONSIDERED**

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE	ATTY. DOCKET NO. 30585/3	SERIAL NO. 09/385,394					
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ОТНЕ	R DOCUMENTS (Including Auti	,	<u> </u>					
C82 30	Linley Gwennap, MDR Technical I Technology and Market Forecast, Microprocessor Report, MicroDesi	IA-64 Software Model - Cha	ipter 3 excerpt					
Superior Sup	Linley Gwennap, MDR Technical I Technology and Market Forecast, E MicroDesign Resources (July 20, 1	Executive Summary, Microp						
PATEMI	Linley Gwennap, First Merced Pate Dual Instruction Sets, Microprocess	,						
	Raymond J. Hookway, et al., Comb 1997) http://www.digital.com/infø/		Translation (August 28,					
	Harold W. Lawson, Jr., et al., Functional Characteristics of a Multilingual Processor, IEEE Transactions on Computers, Vol. C-20, No. 7, pp. 732-742 (July, 1971)							
	Nanodata Corporation, QM-1 Hardware level User's Manual (1975)							
	Nanodata Corporation, QM-2 Processor (1976) Robert F. Rosin, Contemporary Concepts of Microprogramming and Emulation, Computing Surveys, Vol. 1 No. 4, pp. 197-212 (December 1969) Robert F. Rosin, An Environment for Research in Microprogramming and Emulation, Communications of the ACM, Vol. 15 No. 8, pp. 748-760 (August 1972) Standard Computer Corp., IC-9000 Central Processing Unit - Principles of Operation (undated – possibly 1969) W.T. Wijner, Design of the Burroughs B1700, Fall Joint Computer Conference, pp. 489-497 (1972)							
	W.T. Wilner, Burroughs B1700 Memory Utilization, Fall Joint Computer Conference, pp. 579-586 (1972)							
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EXAMINER	D	ATE CONSIDERED						

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INFORMATION DISCLOSURE CITATION John S. Yattes, Jr., et al. June 20 June 2751 J	FORM PTO-1449 U.S. DEPARTMENT OF COMMER			ATTY. DOCKET NO. 30585/3		ı	SERIAL NO. 09/385,394		
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U.S. PATENT DOCUMENTS CLASS SURCLASS SURCLASS	1 / %					li i			
DATE NAME CLASS SURCLASS SURCLASS	WOV 1 0 2000 00 THE DATENIT DOCUMENTS							$\Omega \circ \Xi$	
RIE 3,781,823 12/25/1973 Senese 346 172.5 July 28,1972 RIE 4,084,235 04/11/1978 Hirtle -364 -200 Apr. 14, 1975 RIE 4,455,602 06/19/1984 Baxter -364 -200 Apr. 14, 1975 RIE 4,455,602 06/19/1985 Agnew 364 200 Apr. 26, 1982 Apr. 27, 1981 Apr. 27, 1982 Apr. 27,	EXAMINE INITIAL	DOOS ENT NUMBER	DAT	E	NAME	CLASS	SUBCLASS	COLING PAPE EXPPROPRIATE	
RIE 3,781,823 12/25/1973 Senese 346 172.5 July 28,1972 RIE 4,084,235 04/11/1978 Hirtle -364 -200 Apr. 14, 1975 RIE 4,455,602 06/19/1984 Baxter -364 -200 Apr. 14, 1975 RIE 4,455,602 06/19/1985 Agnew 364 200 Apr. 26, 1982 Apr. 27, 1981 Apr. 27, 1982 Apr. 27,	SHE!	ADEMAN 3,544,969	12/01/1970		Rakoczi	'340 -	172.5	<u> </u>	
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RIE 4,455,602 06/19/1984 Baxter -364 200 May 22, 981 RIE 4,514,803 4/30/1985 Agnew 364 200 Apr. 26 1982 RIE 4,575,797 03/11/1986 Gruner 364 200 May 22, 1981 RIE 5,481,684 01/02/1996 Richter 395 -375 Jul. 20 1994 RIE 5,542,059 07/30/1996 Blomgren -395 375 Jul. 20 1994 RIE 5,542,09 07/30/1996 Blomgren -395 3475 B60 Aug. 31, 1994 RIE 5,574,927 11/12/1996 Scantlin 395 -860 Nov. 12, 1996 RIE 5,574,927 11/12/1996 Scantlin 395 -860 Nov. 12, 1996 RIE 5,598,546 01/28/1997 Blomgren -395 -385 Aug. 31, 1994 RIE 5,638,525 06/10/1997 Harmond -395 -385 Feb. 10, 1995 RIE 5,662,869 07/29/1997 Herdeg -395 -560 Dec. 28, 1994 RIE 5,685,009 11/04/1997 Blomgren -295 -860 Nov. 29, 1995 RIE 5,685,009 11/04/1997 Blomgren -295 -860 Nov. 29, 1995 RIE 5,774.686 06/30/1998 Harmond 395 -385 Jun. 7, 1995 RIE 5,781,750 07/14/1998 Blomgren -395 -560 Jun. 7, 1995 RIE 5,832,205 11/03/1998 Frank 395 -591 June 5, 1995 RIE 5,832,205 11/03/1998 Kelly -395 -707 Jan. 29, 1996 RIE 5,903,760 05/11/1999 Farber -395 -707 Jan. 29, 1996 RIE 5,930,500 07/27/1999 Yates -395 -707 Jan. 29, 1996 RIE 5,930,500 07/27/1999 Yates -395 -707 Jan. 29, 1996 RIE 5,958,047 09/28/1999 Panwar 712 237 Jun. 25, 1997 RIE 5,958,047 09/28/1999 Panwar 712 237 Jun. 25, 1997 RIE 5,958,047 09/28/1999 Chernoff 712 237 Jun. 25, 1997 RIE 5,958,047 09/28/1999 Chernoff 712 237 Jun. 25, 1997 RIE 5,930,509 07/27/1999 Chernoff 712 237 Jun. 29, 1996 RIE 6,000,028 12/07/1999 Chernoff 712 237 Jun. 29, 1996 RIE 6,000,028 12/07/1999 Chernoff 712 237 Jun. 29, 1996 RIE 6,000,028 12/07/1999 Chernoff 712 237 Jun. 29, 1996 RIE 6,000,038 RIE 6,000,038 RIE 6,000,038 RIE 6,000,038 RIE 6,000,038		4,084,235	04/11/	1978	Hirtle	-364	-200	Apr. 14, 1975	
RIE 4,514,803 4/30/1985 Agnew 364 200 Apr. 26 1982		4,455,602	06/19/	1984	Baxter	-364	-200	May 22, 981	
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Systa, 927 11/12/1996 Scantlin 395 800 Nov. 12, 1996		5,542,059	07/30/	1996	Blomgren	-395	375	Dec. 21, 1994	
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R/E 5,685,009 11/04/1997 Blomgren -295 -800 Nov. 29, 1995 R/E 5,774.686 06/30/1998 Hammond 395 -385 Jun. 7, 1995 R/E 5,781,750 07/14/1998 Blomgren -395 500 Jan 11, 1994 R/E 5,822,578 10/13/1998 Frank 395 -591 June 5, 1995 R/E 5,822,578 10/13/1998 Kelly 395 -591 June 5, 1995 R/E 5,822,578 11/03/1998 Kelly 395 -591 June 5, 1995 R/E 5,822,578 10/13/1998 Hookway 395 -591 June 5, 1995 R/E 5,822,578 11/24/1998 Hookway 395 -707 Jan. 29, 1996 R/E 5,903,760 05/11/1999 Farber 395 -705 Jun. 11, 1997 R/E 5,930,509 07/27/1999 Yates -395 -707 Jan. 29, 1996 R/E 5,958,047 09/28/1999 Panwar	RŒ	5,638,525	06/10/	1997	Hammond	-395	- 385	Feb. 10, 1995	
RCE 5,774.686 06/30/1998 Hammond 395 385 Jun. 7, 1995	RUE	5,652,869	07/29/	1997	Herdeg	-395	-500	Dec. 28, 1994	
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Section	RE	5,774.686	06/30/1998		Hammond	395	385 .	Jun. 7, 1995	
S,832,205	RIE	5,781,750	07/14/1998		Blomgren	-395	500	Jan 11, 1994	
RIE 5,842,017 11/24/1998 Hookway 395 707 Jan. 29, 1996	RUE	5,822,578	10/13/1998		Frank	395	-591 -	June 5, 1995	
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RCE 5,930,509 07/27/1999 Yates 395 -707 Jan. 29, 1996	RCE	5,903,760	05/11/	1999	Farber	395	707	Jun. 27, 1996	
RCE 5,958,047 09/28/1999 Panwar 712 237 Jun. 25, 1997	RIE	5,920,721	07G/06	/1999	Hunter	-395	705	Jun. 11, 1997	
RCE 6,000,028 12/07/1999 Chernoff 712 226 Jan. 29, 1996	RE	5,930,509	07/27/	1999	Yates	- 395 -	-707	Jan. 29, 1996	
RCE 6,031,992 02/29/2000 Cmelik -395 -705 Jul. 5, 1996	RUE	5,958,047	09/28/	1999	Panwar	712	237	Jun. 25, 1997	
FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS TRANSLATION YES NO		6,000,028	12/07/1999		Chernoff	712	226	Jan. 29, 1996	
FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS TRANSLATION YES NO			02/29/2000		Cmelik	-395	705 -	Jul. 5, 1996	
DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS TRANSLATION YES NO	RŒ	6,091,897	07/18/2000		Yates	- 395	-708	Jan. 29, 1996	
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EP 0 324 308 Larsen 07/19/1989 EPO G06F 9/30 WO 96/24895 Hammond 08/15/1996 PCT/US PCT/US PO G06F 9/455	FOREIGN PATENT DOCUMENTS								
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RLFC WO 97/50031 Farber 12/31/1997 PCT/US SCO G06F 9/455	RE	WO 96/24895 H	ammond	08/15/199	96 PCT/US	G06F	-9/22-		
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RCE		WO 98/38575 Klaiber	09/03/1998	3	WIPO	G06F	-11/00				
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	-	OTHER DOCUMENT	S (Including A	lutho	r, Title, Date,	Pertinen	t Papers,	Etc.)			
RIE	Burroughs, Preliminary Edition, B 1700 Systems Reference Manual, Burroughs Corporation (1972)										
RÆ RÆ			Burroughs, B 1700 Systems Micro Implementation Language (MIL) Reference Manual, Burroughs Corporation (1973)								
RIE			Anton Chernoff, et al., FX!32, A Profile-Directed Binary Translator, IEEE Micro, Vol. 18 No. 2 pp. 56-64 (March/April, 1998)								
RLE		Compaq Computer Cor	Compaq Computer Corp., Compiler Writer's Guide for the Alpha 21264, 1999								
RE		, , , , ,	Digital Equipment Corp., White Paper: How DIGITAL FX!32 Works (September 1997) http://www.digital.com/semiconductor/amt/fx32/fx-white.htm								
RŒ		· ·	Ebcioglu and Altman, IBM Research Report, DAISY: Dynamic Compilation for 100% Architectural Compatibility, IBM Research Division (1996)								
RE		Linda Geppert et al., Tr 2000)	Linda Geppert et al., Transmeta's Magic Show, IEEE Spectrum, vol. 37 no. 5, pp. 26-33 (May 2000)								
RUE		Ronald M. Guffin, Microdiagnostics for the Standard Computer MLP-900 Processor, IEEE Transactions on Computers, Vol. C-20 No. 7, pp. 803-808 (July 1971)									
RÆ RÆ	Linley Gwennap, MDR Technical Library Special Report, Intel's Merced and IA-64 Technology and Market Forecast, IA-64 Software Model - Chapter 3 excerpt Microprocessor Report, MicroDesign Resources (July 20, 1998)										
RUE RUE RUE RUE		Linley Gwennap, MDR Technical Library Special Report, Intel's Merced and IA-64: Technology and Market Forecast, Executive Summary, Microprocessor Report, MicroDesign Resources (July 20, 1998)									
RŒ		1 2	Linley Gwennap, First Merced Patent Surfaces, Intel Document Reveals Processors With Dual Instruction Sets, Microprocessor Report, MicroDesign Resources (July 20, 1998)								
RE			Raymond J. Hookway, et al., Combining Emulation and Binary Translation (August 28, 1997) http://www.digital.com/info/DTJP01HM.HTM								
RF		Intel Corporation, Intel Architecture Software Developer's Manual, passim (1997)									
EXAMINER RICHARD ELIK			D	DATE CONSIDERED 1/3/2007							

FORM PTO-1449		49	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 30585/3	SERIAL NO. 09/385,394					
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FRE	Harold W. Lawson, Jr., et al., Functional Characteristics of a Multilingual Processor, IEEE									
RE			Nanodata Corporation, QM-1 Hardware level User's Manual (1975)							
RE RE RE RE RE			Nanodata Corporation, QM-2 Processor (1976)							
ROE			Robert F. Rosin, Contemporary Concepts of Microprogramming and Emulation, Computing Surveys, Vol. 1 No. 4, pp. 197-212 (December 1969)							
RIE			Robert F. Rosin, An Environment for Research in Microprogramming and Emulation, Communications of the ACM, Vol. 15 No. 8, pp. 748-760 (August 1972)							
RE			Standard Computer Corp., IC-9000 Central Processing Unit - Principles of Operation (undated – possibly 1969)							
RLE			W.T. Wilner, Design of the Burroughs B1700, Fall Joint Computer Conference, pp. 489-497 (1972)							
RUE			W.T. Wilner, Burroughs B1700 Memory Utilization, Fall Joint Computer Conference, pp. 579-586 (1972)							
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